



## Translation

# (1) EC-Type Examination Certificate

(2) - Directive 94/9/EC -  
Equipment and protective systems intended for use  
in potentially explosive atmospheres

(3) **BVS 09 ATEX E 050 X**

(4) **Equipment:** Floodlight type PX04\*\*\*\* and PXI04\*\*\*\*

(5) **Manufacturer:** Cooper Crouse-Hinds GmbH (CEAG)

(6) **Address:** 69412 Eberbach, Germany

(7) The design and construction of this equipment and any acceptable variation thereto are specified in the appendix to this type examination certificate.

(8) The certification body of DEKRA EXAM GmbH, notified body no. 0158 in accordance with Article 9 of the Directive 94/9/EC of the European Parliament and the Council of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the test and assessment report BVS PP 09.2055 EG.

(9) The Essential Health and Safety Requirements are assured by compliance with:

EN 60079-0:2006	General requirements
EN 60079-1:2004	Flameproof enclosure 'd'
EN 60079-7:2007	Increased safety 'e'
EN 61241-0:2006	General requirements
EN 61241-1:2004	Protection by enclosures

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the appendix to this certificate.

(11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to Directive 94/9/EC.  
Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate

(12) The marking of the equipment shall include the following:



**II 2G Ex de IIB T2 - T4 resp. II 2G Ex d IIB T2 - T4**  
**II 2D Ex tD A21 IP66 T85°C – 210°C**

**DEKRA EXAM GmbH**

Bochum, dated 30. April 2009

Signed: Simanski

Signed: Dr. Eickhoff

Certification body

Special services unit

(13) Appendix to

(14) **EC-Type Examination Certificate**

**BVS 09 ATEX E 050 X**

(15) 15.1 Subject and type

Floodlight type PX04\*\*\*\* and PXI04\*\*\*\*

Details see “Parameters”

15.2 Description

The floodlights type PX04\*\*\*\* and type PXI04\*\*\*\* consist of the following:

- a lamp enclosure with lamp socket and reflector manufactured to meet the requirements of the type of protection Flameproof Enclosure ‘d’ and of
- a junction box for connecting the external cable, depending on the cable entry manufactured according to the type of protection Flameproof Enclosure ‘d’ or Increased Safety ‘e’.

Additionally, some variants feature a compensation box – manufactured according to the type of protection Flameproof Enclosure ‘d’ – to allow for external components to be mounted, for example electronic ballasts, ignition devices or capacitors.

This compensation box may be replaced by an enclosure of either type EJB 110, 120 or 130 of type of protection Flameproof Enclosure ‘d’ into which several ballasts and capacitors can be mounted.

The floodlight variants type PX04\*\*\*\* and PXI04\*\*\*\* in conjunction with the enclosure type EJB are only suitable for use in potentially explosive gas atmospheres.

The glass window of the lamp enclosure is sealed into its frame by means of a compound.

Together with the floodlight enclosure the frame is defined as a flameproof flat joint.

Electric power is supplied by cable glands separately certified for this purpose.

### 15.3 Parameters

PX Type	Lamp*	Socket	220V – 254V / 50 and 60Hz			
			Lamp mounted horizontally (ceiling mounting)			
			(Gas)		(Dust)	
			-20°C to +55°C	-20 °C to +40°C	-20 °C to +55 °C	-20 °C to +40 °C
PX 0407	HS. 70W	E 27	T4	T4	T100°C	T85°C
	HI. 70W		T4	T4	T105°C	T90°C
PX 0415	HS. 150W	E 40	T4	T4	T130°C	T115°C
	HI. 150W		T4	T4	T120°C	T105°C
PX 0425	HS. 250W		T3	T4	T145°C	T130°C
	HI. 250W		T3	T4	T145°C	T130°C
	HME 250W		T3	T3	T165°C	T150°C
PX 0440	HS. 400W		T3	T3	T190°C	T175°C
	HI. 400W		T3	T3	T185°C	T170°C
	HME 400W		T2	T3	T201°C	T186°C
PX 0460	HS. 600W		T2	T3	T210°C	T195°C
PXI 0405	HDI 500W		T2	T3	T200°C	T185°C
PX 04215 (EJB110)	HS. 150W		T4	T4		
	HI. 150W		T4	T4		
PX 04225 (EJB110)	HS. 250W		T3	T4		
	HI. 250W		T3	T4		
	HME 250W		T3	T3		
PX 04240 (EJB110)	HS. 400W		T3	T3		
	HI. 400W		T3	T3		
PX 04315 (EJB120)	HS. 150W		T4	T4		
	HI. 150W		T4	T4		
PX 04325 (EJB120)	HS. 250W		T3	T4		
	HI. 250W		T3	T4		
	HME 250W		T3	T3		
PX 04340 (EJB120)	HS. 400W		T3	T3		
	HI. 400W		T3	T3		
PX 04415 (EJB130)	HS. 150W		T4	T4		
	HI. 150W		T4	T4		
PX 04425 (EJB130)	HS. 250W		T3	T4		
	HI. 250W		T3	T4		
	HME 250W		T3	T3		
PX 04440 (EJB130)	HS. 400W		T3	T3		
	HI. 400W		T3	T3		

HS. - Sodium lamp, luminaire: bulb or tube  
 HI. - High-pressure lamp, metal halide lamp, luminaire: bulb or tube  
 HME - Mercury vapour lamp, luminaire: bulb  
 HDI - General halide lamps

(16) Test and assessment report

BVS PP 09.2055 EG as of 30.04.2009

(17) Special conditions for safe use

- 17.1 The widths of the flameproof joint of this apparatus are in parts longer than required by Table 3 of EN 60079-1:2007. Information on the dimensions has to be obtained from the manufacturer.
- 17.2 The floodlight can only be used if mounted horizontally (ceiling mounting). Relevant hints in the instruction manual have to be observed.
- 17.3 Only such components (bushings, cable glands, connecting parts) are permitted for mounting that meet the technical status of the standard stated on the front page; furthermore, the components have to be suitable for the ambient conditions of use and separately certified.
- 17.4 In order to close the flameproof compartment screws have to be used that comply at least with strength category A2-70.

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We confirm the correctness of the translation from the German original.  
In the case of arbitration only the German wording shall be valid and binding.

44809 Bochum, 07.12.2009  
BVS-Hk/Ar E 1847/09

**DEKRA EXAM GmbH**



Certification body



Special services unit